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09/690,243	10/17/2000	Ari Engelberg	36530/RRT/S850	2962
23363 7590 03/13/2007 CHRISTIE, PARKER & HALE, LLP			EXAMINER	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summary	09/690,243	ENGELBERG ET AL.				
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The MAII ING DATE of this communication	FIRMN BACKER	3621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Ci after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, for No period for reply is specified above, the maximum statutory provided to the second of the se	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of the period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on						
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-79 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-79 is/are rejected.						
7) Claim(s) is/are objected to.	and/or alaction requirement					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94: 3) Information Disclosure Statement(s) (PTO-1449) Paper Notice (PTO-1449)	8) 5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-79 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whitehouse (U.S. Patent No. 6,005,945 (applicant submitted IDS) in view of Pang et al (U.S. Patent No. 6,446,204).
- 4. As per claim 1, Whitehouse teaches a on-line system for printing value bearing items a client system and a server comprising a database remote from the client system and including information about a plurality of users, a plurality of security device transaction data records stored in the database to ensure authenticity of the plurality of users (see figs 3, 4, column 7 line 54-8 line 11 also see fig 4, column 8 lines 23-29, 54-58, 9 line 15-19). Whitehouse fail to teach scalable server system capable of communicating with the client system over a communication

Art Unit: 3621

network wherein the scalable server system is configured to process each security device transaction data record can be processed in a stateless manner; an a stateless cryptographic module to authenticate the users using the plurality of security device transaction data records stored in the database. However, Pang et al teach scalable server system capable of communicating with the client system over a communication network wherein the scalable server system is configured to process each security device transaction data record can be processed in a stateless manner; an a stateless cryptographic module to authenticate the users using the plurality of security device transaction data records stored in the database (see abstract, figs 2, 6 and 8, column 23 lines 26-64, 25 lines 1-20). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Whitehouse et al. disclosure to include Pang et al scalable server system capable of communicating with the client system over a communication network wherein the scalable server system is configured to process each security device transaction data record can be processed in a stateless manner; an a stateless cryptographic module to authenticate the users using the plurality of security device transaction data records stored in the database because this would have ensure that client would be properly authenticate whenever service is needed thereby enhance the flexibility of the system.

Page 3

5. As per claim 2, Whitehouse teaches a system wherein each security device transaction data is related to a user (see column 9 lines 12-20).

Art Unit: 3621

6. As per claim 3, Whitehouse teaches a system wherein the security device transaction data related to a user is loaded into the cryptographic module when the user requests to operate on a value bearing item (see column 9 lines 45-50).

- 7. As per claim 4, Whitehouse teaches a system wherein the security device transaction data related to a user is updated and returned to the database (see column 9 line 51-63, 12 line 53-56).
- 8. As per claim 5, Whitehouse teaches a system further comprising one module is capable of processing any of the plurality of security device transaction data (see column 9 line 51-63).
- 9. As per claim 6, Whitehouse teaches a system wherein a user can be authenticated using any of the cryptographic modules (see column 9 line 51-63).
- 10. As per claim 7, Whitehouse teaches a system further comprising computer executable code for load-balancing to route user requests to the at least one more cryptographic module (see column 19 line 35-20 line 8).
- 11. As per claim 8, Whitehouse teaches a system further comprising computer executable code for load-balancing to distribute traffic among the multiple cryptographic modules (see column 19 line 35-20 line 8).

Page 5

- 12. As per claim 9, Whitehouse teaches a system wherein the cryptographic module is capable of authenticating any of the one or more users (see column 19 line 35-20 line 8).
- 13. As per claim 10, Whitehouse teaches a system wherein the database is partitioned across a plurality of physical databases (see fig 7).
- 14. As per claim 11, Whitehouse teaches a system wherein the cryptographic module performs cryptographic function on a transaction related to the database (see fig 7).
- 15. As per claim 12, Whitehouse teaches a system further comprising computer executable code for password authentication to prevent unauthorized access to the database (see column 10 line 45-60).
- 16. As per claim 13, Whitehouse teaches a system wherein the database stores a first set of one or more last database transactions and the cryptographic module stores a second set of one or more last database transactions for comparison with the first set of one or more last database transactions stored in the database to verify each database transaction (see column 8 line 63-9 line 12).
- 17. As per claim 14, Whitehouse teaches a system wherein the cryptographic module prevents further database transactions if the second set of one or more last transaction stored in

the cryptographic module does not compare with the first set of one or more last transaction stored in the database (see column 9 lines 1-12).

Page 6

- 18. As per claim 15, Whitehouse teaches a system wherein the cryptographic module includes a data validation subsystem for allowing the module to verify that data is up to date and an auto-recovery subsystem for automatically re-synchronize the module with the data (see column 9 line 32-50).
- 19. As per claim 16, Whitehouse teaches a system wherein the cryptographic module includes a computer executable code for preventing unauthorized modification of data (see column 15 line 1-17).
- 20. As per claim 17, Whitehouse teaches a system wherein the cryptographic module includes a computer executable code for ensuring the proper operation of cryptographic security and VBI related meter functions (see column 16 line 45-67).
- 21. As per claim 18, Whitehouse teaches a system wherein the cryptographic module includes a computer executable code for supporting multiple concurrent users (see fig 7).
- 22. As per claim 19, Whitehouse teaches a system wherein the database includes one or more indicium data elements, data for account maintenance, and data for revenue protection (see fig. 4).

Art Unit: 3621

23. As per claim 20 and 21, Whitehouse teaches a system wherein the database includes virtual meter information and a descending register data (see column 10 line 50-11 line 26, 14 lines 25-36).

- 24. As per claims 22 and 23, Whitehouse teaches a system wherein the value bearing item is a mail piece that comprises a digital signature (see column 7 lines 1-5, 8 line 47-51 and 11 lines 27-29.
- 25. As per claim 24, Whitehouse teaches a system wherein the cryptographic module performs cryptographic function on validation information according to a user request for printing a VBI (see column 9 lines 12-30).
- 26. As per claim 25, Whitehouse teaches a system wherein the cryptographic module generates data sufficient to print a postal indicium in compliance with postal service regulation on a mail piece (see column 8 line 65-9 line 11).
- 27. As per claims 26-31, Whitehouse teaches a system wherein a bar code is printed on the value bearing item that is a ticket, is a coupon, is currency, a voucher, a traveler's check (see column 8 lines 14-18, 13 lines 56-60).

Art Unit: 3621

- 28. As per claim 32, Whitehouse teaches a system wherein each security device transaction data includes one or more of an ascending register value, a descending register value, a respective cryptographic module ID, an indicium key certificate serial number, a licensing ZIP code, a key token for an indicium signing key, user secrets, a key for encrypting user secrets, date and time of last transaction, last challenge received from a respective client subsystem, an operational state of the respective module, expiration dates for keys, and a passphrase repetition list (see column 9 lines 12-67, 13 lines 20-36, 14 lines 25-55).
- 29. As per claim 33, Whitehouse teaches a system wherein each security device transaction data includes one or more of a private key, a public key, and a public key certificate, wherein the private key is used to sign module status responses and a VBI which, in conjunction with a public key certificate, demonstrates that the module and the VBI are authentic (see column 9 lines 12-50, 13 lines 20-36).
- 30. As per claim 34, Whitehouse teaches a system wherein the cryptographic module is capable of performing one or more of Rivest, Shamir and Adleman (RSA) public key encryption, DES, Triple-DES, DSA signature, SHA-1, and Pseudo-random number generation algorithms (see column 23 lines 49-59).
- 31. As per claim 35, Whitehouse teaches a system wherein the server system further comprises one or more of a postal server subsystem, a provider server subsystem, an e-commerce subsystem, a staging subsystem, a client support subsystem, a decision support subsystem, a

Art Unit: 3621

SMTP subsystem, an address matching service subsystem, a SSL proxy server subsystem, and a web server subsystem (see figs 3 and 4).

- 32. As per claim 36, Whitehouse teaches a system wherein the database includes one or more of a postal database, a provider database, an e-commerce database, and a membership database (see fig 3, 4).
- 33. As per claim 37, Whitehouse teaches a system further comprising an address matching server for verifying a correct address specified by a user (see column 12 line 65-13 line 15).
- 34. As per claim 38, Whitehouse teaches a system further comprising a printer driver database for storing supported printer driver information (see figs 3 and 4).
- 35. As per claim 39, Whitehouse teach a method for printing value-beating items (VBI) via a communication network including a client system and a server system the method comprising accepting print requests from one or more users by the client system, communicating the print requests to the server system over the communication network, storing in a database a plurality of security device transaction data records, ensuring authenticity of the one or more users, utilizing a respective security device transaction data record (see figs 3, 4, column 7 line 54-8 line 11 also see fig 4, column 8 lines 23-29, 54-58, 9 line 15-19). Whitehouse fail to teach a system for processing in a stateless manner each security device transaction data record in the server system and authenticating by a scalable cryptographic module the one or more users

Art Unit: 3621

utilizing one or more of the plurality of security device transaction data record stored in the

database.. However, Pang el al teach a system for processing in a stateless manner each security

Page 10

device transaction data record in the server system and authenticating by a scalable

cryptographic module the one or more users utilizing one or more of the plurality of security

device transaction data record stored in the database (see abstract, figs 2, 6 and 8, column 23

lines 26-64, 25 lines 1-20). Therefoer it would have been obvious to one of ordinary skill in the

art at the time the invention was made to modify Whitehouse et al's invention to include Pangs et

al's system for processing in a stateless manner each security device transaction data record in

the server system and authenticating by a scalable cryptographic module the one or more users

utilizing one or more of the plurality of security device transaction data record stored in the

database because this would have ensure that client would be properly authenticate whenever

service is needed thereby enhance the flexibility of the system

36. As per claim 40, Whitehouse teaches a method wherein each security device transaction

data is related to a user (see column 9 lines 12-20).

37. As per claim 41, Whitehouse teaches a method further comprising of loading the security

device transaction data related to a user into the cryptographic module when the user requests to

operate value bearing item (see column 9 lines 45-50).

Art Unit: 3621

38. As per claim 42, Whitehouse teaches a method further comprising of updating and returning the security device transaction data related to a user to the database (see column 9 line 51-63, 12 line 53-56).

- 39. As per claim 43, Whitehouse teaches a method further comprising adding at least one more stateless cryptographic module, wherein each cryptographic module is capable of processing any of the plurality of security device transaction data (see column 9 line 51-63).
- 40. As per claim 44, Whitehouse teaches a method further comprising of authenticating a user using any of the cryptographic modules (see column 9 line 51-63).
- 41. As per claim 45, Whitehouse teaches a method further comprising load-balancing to route user requests to the at least one more cryptographic module see column 19 line 35-20 line 8).
- 42. As per claim 46, Whitehouse teaches a method further comprising load-balancing to distribute traffic among the multiple cryptographic modules see column 19 line 35-20 line 8).
- 43. As per claim 47, Whitehouse teaches a method further comprising authenticating any of the one or more users using the cryptographic module (see column 9 line 51-63).

44. As per claim 48, Whitehouse teaches a method comprising partitioning the database

across a plurality of physical databases (see fig 7).

45. As per claim 49, Whitehouse teaches a method further comprising encrypting database

transactions using the cryptographic module (see column 10 line 45-60).

46. As per claim 50, Whitehouse teaches a method further comprising verifying a user

password before granting access to the database (see column 15 line 1-17).

47. As per claim 51, Whitehouse teaches a method further comprising storing one or more

last database transactions in the database storing one or more last database transactions in the

cryptographic module; and comparing the one or more last database transactions stored in the

database with the one or more last database transactions stored in the cryptographic module to

verify each database transaction (see column 16 line 45-67).

48. As per claim 52, Whitehouse teaches a method further comprising encrypting

transactions related to the database using the cryptographic module (see column 15 line 1-17).

49. As per claim 53, Whitehouse teaches a method further comprising storing one or more

last database transactions in the database, storing one or more last database transactions in the

cryptographic module for comparison with the one or more last database transactions stored in

the database to verify each database transaction (see column 10 line 45-60).

Page 13

Art Unit: 3621

50. As per claim 54, Whitehouse teaches a method further comprising preventing further database transactions if the one or more last transaction stored in the cryptographic module does not compare with the one or more last transaction stored in the database (see column 8 line 63-9 line 12).

- 51. As per claim 55, Whitehouse teaches a method further comprising preventing unauthorized modification of data using the cryptographic module (see column 16 line 45-67).
- 52. As per claim 56, Whitehouse teaches a method further comprising verifying that the database is up to date (see column 10 line 45-60).
- 53. As per claim 57, Whitehouse teaches a method further comprising automatically resynchronizing the cryptographic module with the database (see column 9 line 51-63).
- 54. As per claim 58, Whitehouse teaches a method further comprising ensuring the proper operation of cryptographic security and VBI related meter functions (see column 9 lines 12-20).
- 55. As per claim 59, Whitehouse teaches a method further comprising supporting multiple concurrent operators (see fig 7).

Page 14

Art Unit: 3621

56. As per claim 60, Whitehouse teaches a method further comprising storing information about a number of last transactions in a respective internal register of each of the one or more cryptographic devices, storing a table including the information about a last transaction in the database, comparing the information saved in the respective device with the respective information saved in the database; and loading a new transaction data if the respective information stored in the device compares with the respective information stored in the database (see column 10 line 45-11 line 25).

- 57. As per claim 61, Whitehouse teaches a method further comprising the step of storing data for creating one or more indicium, account maintenance, and revenue protection (see column 10 line 45-11 line 25).
- 58. As per claims 62-65, Whitehouse teaches a method further comprising printing a mail piece includes a digital signature, a postage amount, an ascending register of used postage and descending register of available postage (see column 13 lines 20-40, 14 line 25-36, 16 lines 19-38).
- 59. As per claims 66-71, Whitehouse teaches a method further comprising printing a ticket, a bar code, a coupon, currency, a voucher, a traveler's check (see column 7 line 46-53, 8 line 14-18, 13 lines 56-60).

60. As per claim 72, Whitehouse teaches a method wherein the security device transaction data includes an ascending register value, a descending register value, a respective cryptographic device ID, an indicium key certificate serial number, a licensing ZIP code, a key token for an indicium signing key, user secrets, a key for encrypting user secrets, date and time of last transaction, last challenge received from a respective client subsystem, an operational state of the respective device, expiration dates for keys, and a passphrase repetition list (see column 13 lines 20-40, 14 line 25-36, 16 lines 19-38).

- 61. As per claim 73, Whitehouse teaches a method further comprising performing one or more of Rivest, Shamir and Adleman (RSA) public key encryption, DES, Triple-DES, DSA signature, SHA-I, and Pseudo-random number generation algorithms using each of the cryptographic devices (see 23 lines 49-59).
- 62. As per claim 74, Whitehouse teaches a method further comprising keeping track of user accesses to a vendor website using a website database (see fig 7).
- 63. As per claim 75, Whitehouse teaches a method further comprising storing postal transaction data, financial transaction data, customer marketing information, commerce product information, meter license information, meter resets, meter history, and meter movement information in an offline database (see column 10 line 45- 11 line 29).

Art Unit: 3621

64. As per claim 76, Whitehouse teaches a method further comprising storing customer information, financial transactions, and information for marketing queries in a data warehouse database (see column 9 lines 12-31).

- 65. As per claim 77, Whitehouse teaches a method further comprising authorizing and capturing funds from a customer's account and transferring the funds to a vendor's account using an e-commerce server (see column 11 line 60-67).
- 66. As per claim 78, Whitehouse teaches a method further comprising verifying a correct address specified using a user using an address matching server (see column 9 line 51-63, 12 line 53-56).
- 67. As per claim 79, Whitehouse teaches a method further comprising storing supported printer driver information in a printer driver database (see figs 3 and 4).

Conclusion

68. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Art Unit: 3621

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FIRMIN BACKER whose telephone number is 571-272-6703. The examiner can normally be reached on Monday - Thursday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew J. Fischer can be reached on (571) 272-6779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 3621

Primary Examiner Art Unit 3621

February 5, 2007

Page 18